



THE GLOBE PROGRAM

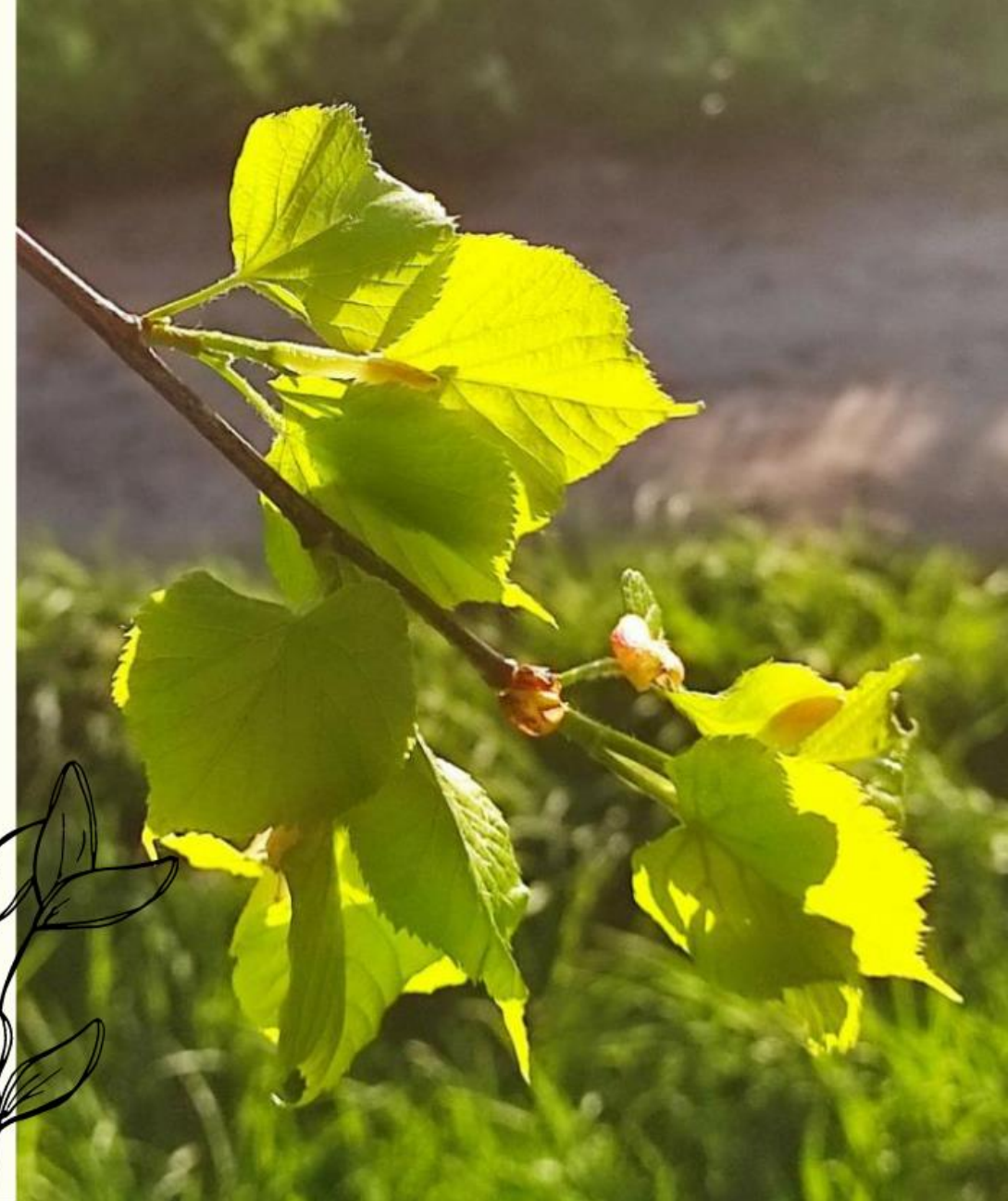
EUROPEAN PHENOLOGY CAMPAIGN WEBINAR

Spring Campaign in a Nutshell

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Republic / GLOBE Program Europe and
Eurasia Region Coordination Office

10 February 2022



Picture by Myropil gymnasium, Ukraine

2022 Spring Phenology Campaign

February ➡ June

Registration by February 18

Campaign aims

- Getting to know trees and their change over spring
- Learning about the place, where they grow
- Spending time outdoors
- Sharing and cooperation
- Data as a source of information for schools projects and scientists



2022 Spring Phenology Campaign

Activities

- Green-up (5)
- Carbon Cycle (4)
- Tree height (1)

All activities are voluntary.
Let us know, how it goes!

Communication

- Newsletter
- Webinars
- Discussion forum

Award for active participation

- Certificate
- Badges for cooperation and data entry



Green-up activities

ACTIVITY 1 MY TREE



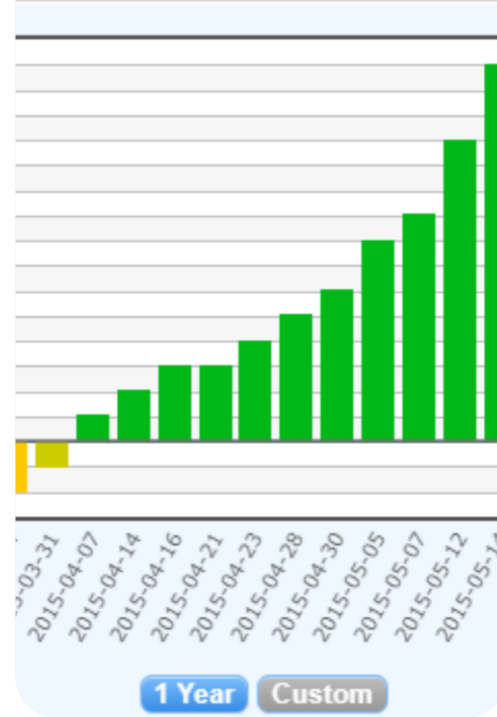
ACTIVITY 2 LOOK AT THE BUDS



ACTIVITY 3 FIRST LEAVES



ACTIVITY 4 MY GREEN UP DATA



ACTIVITY 5 GREEN SCALE



Activity 1 – My Tree

- Find a suitable tree
 - Close
 - Low branch
 - Not shaded, watered, fertilized
- Describe the tree and the site where it grows
- Take pictures with GrowApp
- Share pictures of your tree without leaves at the discussion forum



Sour cherry



Small-leaved lime



Hazel



Penduculate oak



Silver birch



Beech



Fig

Activity 2 – Look at the Buds

- Select and sign a branch and 4 buds
- Observe them 2 times a week
- Record the observations into the Tree and Shrub Green-Up Data Sheet
- If you have an Atmosphere site nearby, keep recording temperature and precipitation data
- Share date of budburst



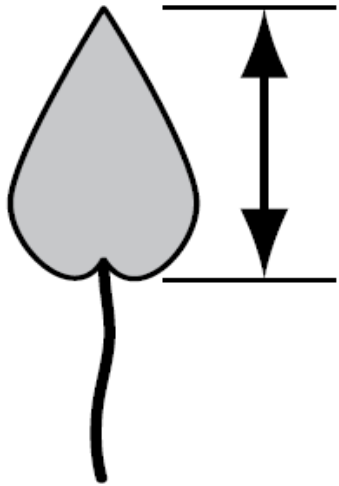
Tree and Shrub Green-Up					
Date (day & month)	Leaf 1 (dormant, swelling, budburst, leaf length (mm))	Leaf 2 (dormant, swelling, budburst, leaf length (mm))	Leaf 3 (dormant, swelling, budburst, leaf length (mm))	Leaf 4 (dormant, swelling, budburst, leaf length (mm))	Data entry ✓



Credits: Gozo College Middle School, Malta

Activity 3 – First Leaves

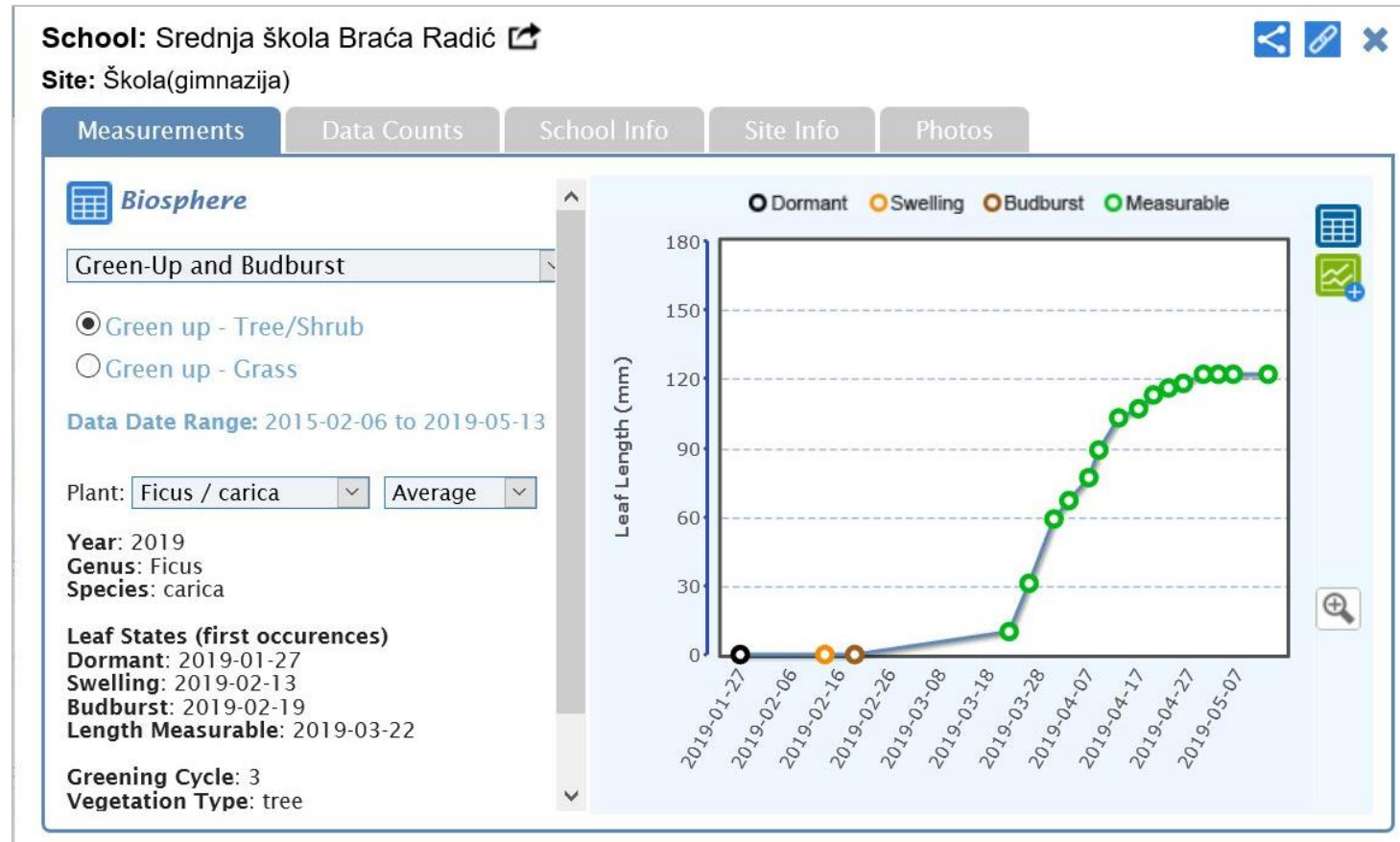
- Budburst (= you can see the tip of green leaf) - record to your data sheet
- **Measure the length of a leaf that grows from the bud**
- Measure the leaf without the stem
- Continue twice a week until your leaves stops growing



Activity 4 – My Green Up Data

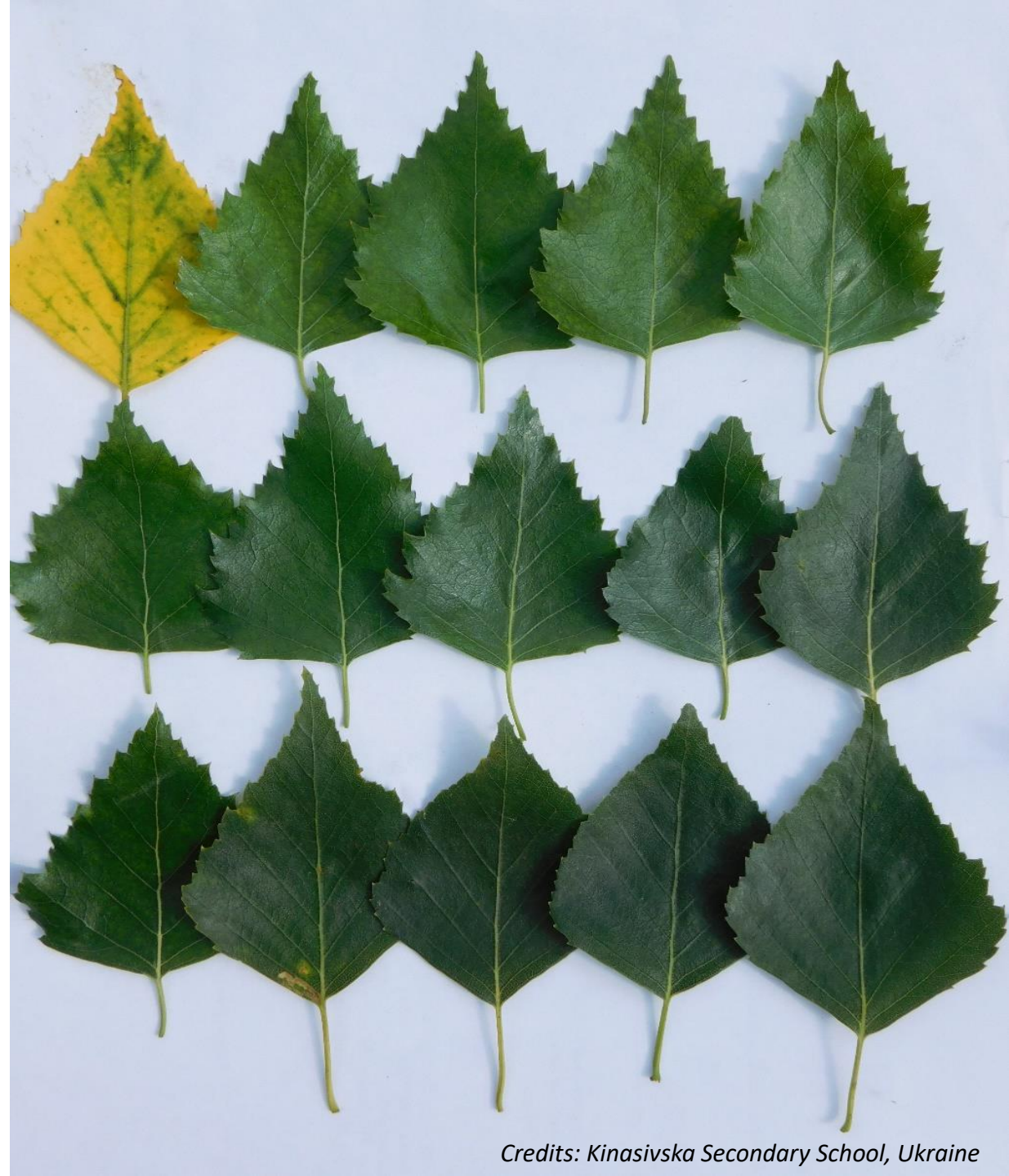
- Upload your green up data to globe.gov website
 - Login to your GLOBE account
 - Data collected at Activities 1, 2 and 3.
- Try GLOBE Visualization tool
 - - See the data on world map
 - - Draw and share a graph with your data
- Compare your data
 - with another school
 - to your data from previous years

Data guide and webinars at the website.



Activity 5 – Green Color Scale

- Enjoy time outdoors
- Collect a variety of green leaves
- Create a scale, palette or..



Credits: Kinasivska Secondary School, Ukraine

How tall is my tree?

Get to know your tree better - measure its height using

- a hand-made clinometer – easy to do using attached worksheet
- GLOBE Observer App: <https://observer.globe.gov/>



GrowApp

- Easy to use mobile application
[for Android](#) / [for iPhone](#)
- Time lapse videos
- Use # to describe tree species and your school

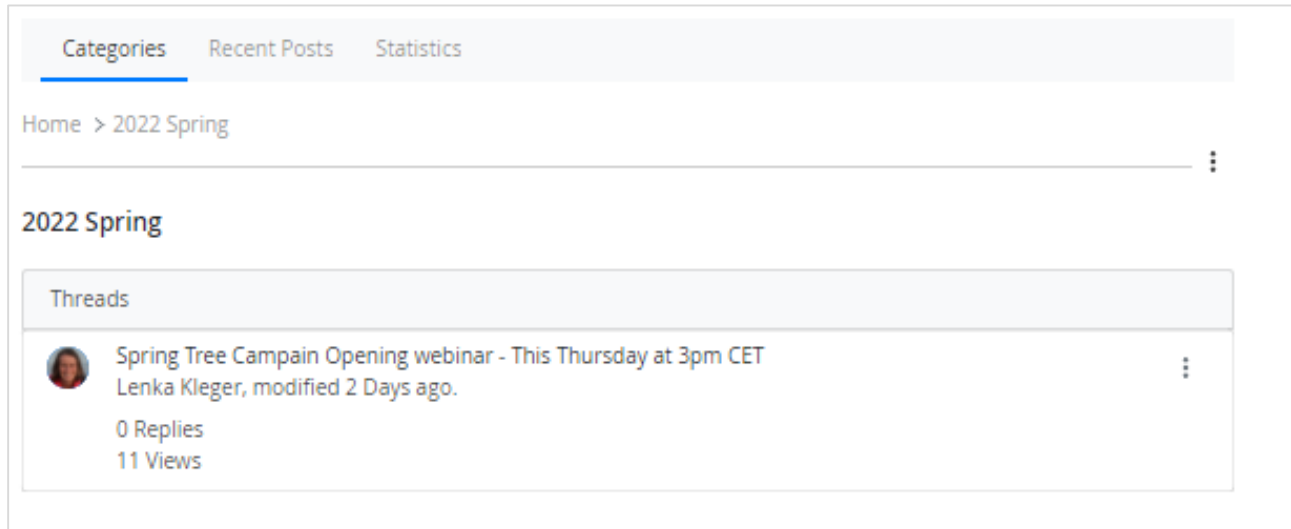


Discussion Forum

Share your pictures and results

How to do it?

- Sign in to GLOBE account
- European Phenology Campaign > News and discussion
- Choose „2022 Spring“
- Publish your post
- Add pictures



The screenshot shows the 'Categories' tab selected in the top navigation bar. Below it, the breadcrumb 'Home > 2022 Spring' is visible. The main heading is '2022 Spring'. Underneath, there is a 'Threads' section with a single thread titled 'Spring Tree Campain Opening webinar - This Thursday at 3pm CET' by 'Lenka Kleger, modified 2 Days ago'. The thread has '0 Replies' and '11 Views'. A vertical ellipsis menu is located to the right of the thread title.

European Phenology Campaign

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Collaboration group

- International groups of 2-4 schools
 - Exchange of data and pictures by e-mail
 - Communication via ZOOM / Skype...
 - Student research projects
 - Practicing language skills

Let us know, how your cooperation is going!



Credits: Lutsk City Ecology and Nature Center, Ukraine

Webinars

Meeting with Scientists #1 - role of trees in lowering the Urban Heat Island effect, April 7, 2022 @ 3pm CET.

- A meeting with Dr Kevin Czajkowski, Professor at the University of Toledo, USA and the lead of the GLOBE Urban Heat Island Effect Campaign.

Meeting with Scientists #2 - the importance of phenology observations, native knowledge, May 4, 2022 @ 5pm CET.

- A meeting with Dr Elena Bautista Sparrow, the founder of GLOBE Phenology and scientist at the International Arctic Research Center and at the University of Alaska, Fairbanks, USA

Our Spring Research, June 1, 2022 @ 3pm CET.

- Meet other teachers and students, share your experience and get inspired

Trees Around the GLOBE Student Research Campaign

- Meet experts from around the world to share their current research experiences with trees and the importance of the GLOBE protocol measurements to understanding our planet's trees and their roles in our Earth's ecosystem.
- Campaign website: <https://www.globe.gov/web/trees-around-the-globe/overview/webinars>

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2022 Spring Tree Campaign



The trees are beautiful. They wake up again each spring. Observe your tree from buds to leaves and upload your measurements into the GLOBE database. Find out how important is the role of trees in the carbon cycle.

The spring campaign will run from February until the beginning of June. To join the campaign, please register.

REGISTRATION

What can you expect?

- 5 activities guiding you through Green-up observations
- 4 activities for everyone who is interested in the role of trees in the global carbon cycle
- Tree-height measurement activity
- Sharing of results and pictures at the campaign [discussion forum](#)
- 4 webinars where you will learn from scientists about phenology and how trees cool cities and get inspiration from other schools.
- Opportunity to cooperate with a partner school(s) from your country or abroad
- Certificates and virtual badges for active schools



Thank you!

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www.globe.gov/web/european-phenology-campaign

